

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 09/003,869B  
Source: IFW16  
Date Processed by STIC: 10/27/04

***ENTERED***



IFW16

**RAW SEQUENCE LISTING** DATE: 10/27/2004  
 PATENT APPLICATION: US/09/003,869B TIME: 16:04:12

Input Set : A:\18528032.seq.txt  
 Output Set: N:\CRF4\10272004\I003869B.raw

ppn 67

1 <110> APPLICANT: BEELEY, NIGEL ROBERT ARNOLD  
 2 PRICKETT, KATHRYN S.  
 3 BHAVSAR, SUNIL  
 6 <120> TITLE OF INVENTION: USE OF EXENDINS AND AGONISTS THEREOF FOR  
 7 THE REDUCTION OF FOOD INTAKE  
 10 <130> FILE REFERENCE: 231/181  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/003,869B  
 C--> 13 <141> CURRENT FILING DATE: 1998-01-07  
 15 <150> PRIOR APPLICATION NUMBER: US 10/187,051  
 16 <151> PRIOR FILING DATE: 2002-06-28  
 18 <150> PRIOR APPLICATION NUMBER: US 09/003,869  
 19 <151> PRIOR FILING DATE: 1998-01-07  
 21 <150> PRIOR APPLICATION NUMBER: US 60/034,905  
 22 <151> PRIOR FILING DATE: 1997-01-07  
 24 <150> PRIOR APPLICATION NUMBER: US 60/055,404  
 25 <151> PRIOR FILING DATE: 1997-08-08  
 27 <150> PRIOR APPLICATION NUMBER: US 60/065,442  
 28 <151> PRIOR FILING DATE: 1997-11-14  
 30 <150> PRIOR APPLICATION NUMBER: US 60/066,029  
 31 <151> PRIOR FILING DATE: 1997-11-14  
 34 <160> NUMBER OF SEQ ID NOS: 188  
 37 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
 41 <210> SEQ ID NO: 1  
 42 <211> LENGTH: 39  
 43 <212> TYPE: PRT  
 44 <213> ORGANISM: Heloderma horridum  
 46 <220> FEATURE:  
 47 <221> NAME/KEY: AMIDATION  
 48 <222> LOCATION: (39)...(39)  
 49 <223> OTHER INFORMATION: amidated Ser (Serinamide)  
 54 <400> SEQUENCE: 1  
 56 His Ser Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 57 1 5 10 15  
 59 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
 60 20 25 30  
 62 Ser Gly Ala Pro Pro Pro Ser  
 63 35  
 66 <210> SEQ ID NO: 2  
 67 <211> LENGTH: 39  
 68 <212> TYPE: PRT  
 69 <213> ORGANISM: Heloderma suspectum  
 71 <220> FEATURE:  
 72 <221> NAME/KEY: AMIDATION

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73 <222> LOCATION: (39)...(39)  
 74 <223> OTHER INFORMATION: amidated Ser (Serinamide)  
 76 <400> SEQUENCE: 2  
 78 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 79 1 5 10 15  
 81 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
 82 20 25 30  
 84 Ser Gly Ala Pro Pro Pro Ser  
 85 35  
 88 <210> SEQ ID NO: 3  
 89 <211> LENGTH: 39  
 90 <212> TYPE: PRT  
 91 <213> ORGANISM: Artificial Sequence  
 93 <220> FEATURE:  
 94 <223> OTHER INFORMATION: artificially synthesized sequence of novel exendin agonist  
 95 compound  
 97 <220> FEATURE:  
 98 <221> NAME/KEY: VARIANT  
 99 <222> LOCATION: (1)...(8)  
 100 <223> OTHER INFORMATION: Xaa in position 1 is His, Arg or Tyr; Xaa in position 2 is  
 101 Ser, Gly, Ala or Thr; Xaa in position 3 is Asp or Glu;  
 102 Xaa in position 6 is Phe, Tyr or naphthylalanine; Xaa in  
 103 position 7 is Thr or Ser; Xaa in position 8 is Ser or Thr;  
 106 <220> FEATURE:  
 107 <221> NAME/KEY: VARIANT  
 108 <222> LOCATION: (9)...(22)  
 109 <223> OTHER INFORMATION: Xaa in position 9 is Asp or Glu; Xaa in position 10 is Leu,  
 Ile,  
 110 Val, pentylglycine or Met; Xaa in position 14 is Leu, Ile,  
 111 pentylglycine, Val or Met; Xaa in position 22 is Phe, Tyr or  
 112 naphthylalanine;  
 114 <220> FEATURE:  
 115 <221> NAME/KEY: VARIANT  
 116 <222> LOCATION: (23)...(25)  
 117 <223> OTHER INFORMATION: Xaa in position 23 is Ile, Val, Leu, pentylglycine, tert-  
 118 butylglycine or Met; Xaa in position 24 is Glu or Asp;  
 119 Xaa in position 25 is Trp, Phe, Tyr, or naphthylalanine;  
 121 <220> FEATURE:  
 122 <221> NAME/KEY: VARIANT  
 123 <222> LOCATION: (31)...(39)  
 124 <223> OTHER INFORMATION: Xaa in positions 31, 36, 37 and 38 are independently Pro,  
 125 homoproline, 3-hydroxyproline, 4-hydroxyproline, thioproline,  
 126 N-alkylglycine, N-alkylpentylglycine or N-alkylalanine;  
 127 Xaa in position 39 is Ser, Thr or Tyr;  
 129 <220> FEATURE:  
 130 <221> NAME/KEY: VARIANT  
 131 <222> LOCATION: (1)...(39)  
 132 <223> OTHER INFORMATION: with the proviso that the compound is not exendin-3  
 133 or exendin-4.  
 135 <220> FEATURE:

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136 <221> NAME/KEY: AMIDATION  
137 <222> LOCATION: (39)...(39)  
138 <223> OTHER INFORMATION: The terminal amino acid may or may not be amidated.  
140 <400> SEQUENCE: 3

W--> 142 Xaa Xaa Xaa Gly Thr Xaa Xaa Xaa Xaa Ser Lys Gln Xaa Glu Glu  
143 1 5 10 15

W--> 145 Glu Ala Val Arg Leu Xaa Xaa Xaa Xaa Leu Lys Asn Gly Gly Xaa Ser  
146 20 25 30

W--> 148 Ser Gly Ala Xaa Xaa Xaa Xaa  
149 35

153 <210> SEQ ID NO: 4  
154 <211> LENGTH: 38  
155 <212> TYPE: PRT  
156 <213> ORGANISM: Artificial Sequence

158 <220> FEATURE:

159 <223> OTHER INFORMATION: artificially synthesized sequence of novel exendin agonist  
160 compound

162 <220> FEATURE:

163 <221> NAME/KEY: VARIANT

164 <222> LOCATION: (1)...(7)

165 <223> OTHER INFORMATION: Xaa in position 1 is His, Arg or Tyr; Xaa in position 2 is  
166 Ser, Gly, Ala or Thr; Xaa in position 3 is Asp or Glu;  
167 Xaa in position 5 is Ala or Thr; Xaa in position 6 is Ala,  
168 Phe, Tyr or naphthylalanine; Xaa in position 7 is Thr or Ser;

170 <220> FEATURE:

171 <221> NAME/KEY: VARIANT

172 <222> LOCATION: (8)...(13)

173 <223> OTHER INFORMATION: Xaa in position 8 is Ala, Ser or Thr; Xaa in position 9 is  
174 Asp or Glu; Xaa in position 10 is Ala, Leu, Ile, Val, pentyl-  
175 glycine or Met; Xaa in position 11 is Ala or Ser; Xaa in  
176 position 12 is Ala or Lys; Xaa in position 13 is Ala or Gln;

178 <220> FEATURE:

179 <221> NAME/KEY: VARIANT

180 <222> LOCATION: (14)...(20)

181 <223> OTHER INFORMATION: Xaa in position 14 is Ala, Leu, Ile, pentylglycine, Val or  
182 Met; Xaa in position 15 is Ala or Glu; Xaa in position 16 is  
183 Ala or Glu; Xaa in position 17 is Ala or Glu; Xaa in position  
184 19 is Ala or Val; Xaa in position 20 is Ala or Arg;

186 <220> FEATURE:

187 <221> NAME/KEY: VARIANT

188 <222> LOCATION: (21)...(24)

189 <223> OTHER INFORMATION: Xaa in position 21 is Ala or Leu; Xaa in position 22 is Ala,  
190 Phe, Tyr or naphthylalanine; Xaa in position 23 is Ile, Val,  
191 Leu, pentylglycine, tert-butylglycine or Met; Xaa in position  
192 24 is Ala, Glu or Asp;

194 <220> FEATURE:

195 <221> NAME/KEY: VARIANT

196 <222> LOCATION: (25)...(27)

197 <223> OTHER INFORMATION: Xaa in position 25 is Ala, Trp, Phe, Tyr or naphthylalanine;

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198        Xaa in position 26 is Ala or Leu; Xaa in position 27 is Ala  
199        or Lys;  
201 <220> FEATURE:  
202 <221> NAME/KEY: VARIANT  
203 <222> LOCATION: (28)...(28)  
204 <223> OTHER INFORMATION: Xaa in position 28 is Ala or Asn;  
210 <220> FEATURE:  
211 <221> NAME/KEY: VARIANT  
212 <222> LOCATION: (29)...(30)  
213 <223> OTHER INFORMATION: Xaa in position 29 is Gly or amino acid is missing;  
214        Xaa in position 30 is Gly or amino acid is missing;  
216 <220> FEATURE:  
217 <221> NAME/KEY: VARIANT  
218 <222> LOCATION: (31)...(32)  
219 <223> OTHER INFORMATION: Xaa in position 31 is Pro, homoproline, 3Hyp, 4Hyp,  
220        thioproline, N-alkylglycine, N-alkylpentylglycine,  
221        N-alkylalanine, or amino acid is missing; Xaa in position  
222        32 is Ser or amino acid is missing;  
224 <220> FEATURE:  
225 <221> NAME/KEY: VARIANT  
226 <222> LOCATION: (33)...(35)  
227 <223> OTHER INFORMATION: Xaa in position 33 is Ser or amino acid is missing;  
228        Xaa in position 34 is Gly or amino acid is missing;  
229        Xaa in position 35 is Ala or amino acid is missing;  
231 <220> FEATURE:  
232 <221> NAME/KEY: VARIANT  
233 <222> LOCATION: (36)...(36)  
234 <223> OTHER INFORMATION: Xaa in position 36 is Pro, homoproline, 3Hyp, 4Hyp,  
235        thioproline, N-alkylglycine, N-alkylpentylglycine,  
236        N-alkylalanine, or amino acid is missing;  
238 <220> FEATURE:  
239 <221> NAME/KEY: VARIANT  
240 <222> LOCATION: (37)...(37)  
241 <223> OTHER INFORMATION: Xaa in position 37 is Pro, homoproline, 3Hyp, 4Hyp,  
242        thioproline, N-alkylglycine, N-alkylpentylglycine,  
243        N-alkylalanine, or amino acid is missing;  
245 <220> FEATURE:  
246 <221> NAME/KEY: VARIANT  
247 <222> LOCATION: (38)...(38)  
248 <223> OTHER INFORMATION: Xaa in position 38 is Pro, homoproline, 3Hyp, 4Hyp,  
249        thioproline, N-alkylglycine, N-alkylpentylglycine,  
250        N-alkylalanine, or amino acid is missing;  
252 <220> FEATURE:  
253 <221> NAME/KEY: AMIDATION  
254 <222> LOCATION: (28)...(28)  
255 <223> OTHER INFORMATION: When Xaa in position 28 is terminal amino acid in sequence,  
256        terminal amino acid may or may not be amidated;  
262 <220> FEATURE:  
263 <221> NAME/KEY: AMIDATION

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264 <222> LOCATION: (29)...(29)  
265 <223> OTHER INFORMATION: When Gly in position 29 is terminal amino acid in sequence,  
266 terminal amino acid may or may not be amidated;  
268 <220> FEATURE:  
269 <221> NAME/KEY: AMIDATION  
270 <222> LOCATION: (30)...(30)  
271 <223> OTHER INFORMATION: When Gly in position 30 is terminal amino acid in sequence,  
272 terminal amino acid may or may not be amidated;  
274 <220> FEATURE:  
275 <221> NAME/KEY: AMIDATION  
276 <222> LOCATION: (31)...(31)  
277 <223> OTHER INFORMATION: When Xaa in position 31 is terminal amino acid in sequence,  
278 terminal amino acid may or may not be amidated;  
280 <220> FEATURE:  
281 <221> NAME/KEY: AMIDATION  
282 <222> LOCATION: (32)...(32)  
283 <223> OTHER INFORMATION: When Ser in position 32 is terminal amino acid in sequence,  
284 terminal amino acid may or may not be amidated;  
286 <220> FEATURE:  
287 <221> NAME/KEY: AMIDATION  
288 <222> LOCATION: (33)...(33)  
289 <223> OTHER INFORMATION: When Ser in position 33 is terminal amino acid in sequence,  
290 terminal amino acid may or may not be amidated;  
292 <220> FEATURE:  
293 <221> NAME/KEY: AMIDATION  
294 <222> LOCATION: (34)...(34)  
295 <223> OTHER INFORMATION: When Gly in position 34 is terminal amino acid in sequence,  
296 terminal amino acid may or may not be amidated;  
298 <220> FEATURE:  
299 <221> NAME/KEY: AMIDATION  
300 <222> LOCATION: (35)...(35)  
301 <223> OTHER INFORMATION: When Ala in position 35 is terminal amino acid in sequence,  
302 terminal amino acid may or may not be amidated;  
304 <220> FEATURE:  
305 <221> NAME/KEY: AMIDATION  
306 <222> LOCATION: (36)...(36)  
307 <223> OTHER INFORMATION: When Xaa in position 36 is terminal amino acid in sequence,  
308 terminal amino acid may or may not be amidated;  
314 <220> FEATURE:  
315 <221> NAME/KEY: AMIDATION  
316 <222> LOCATION: (37)...(37)  
317 <223> OTHER INFORMATION: When Xaa in position 37 is terminal amino acid in sequence,  
318 terminal amino acid may or may not be amidated;  
320 <220> FEATURE:  
321 <221> NAME/KEY: AMIDATION  
322 <222> LOCATION: (38)...(38)  
323 <223> OTHER INFORMATION: When Xaa in position 38 is terminal amino acid in sequence,  
324 terminal amino acid may or may not be amidated;  
326 <220> FEATURE:

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 1,2,3,6,7,8,9,10,14,22,23,24,25,31,36,37,38,39  
Seq#:4; Xaa Pos. 1,2,3,5,6,7,8,9,10,14,17,18,19,20,21,22,23,24  
Seq#:4; Xaa Pos. 25,26,27,28,29,30,31,32,33,34,35,36,37,38  
Seq#:5; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,19,20,21,22,23  
Seq#:5; Xaa Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39  
Seq#:15; Xaa Pos. 6  
Seq#:20; Xaa Pos. 10  
Seq#:21; Xaa Pos. 10  
Seq#:22; Xaa Pos. 14  
Seq#:23; Xaa Pos. 14  
Seq#:24; Xaa Pos. 22  
Seq#:27; Xaa Pos. 23  
Seq#:28; Xaa Pos. 23  
Seq#:31; Xaa Pos. 31,36,37,38  
Seq#:32; Xaa Pos. 36,37,38  
Seq#:33; Xaa Pos. 31,36,37,38  
Seq#:34; Xaa Pos. 36,37,38  
Seq#:35; Xaa Pos. 31,36,37,38  
Seq#:36; Xaa Pos. 31,36,37,38  
Seq#:37; Xaa Pos. 31,36,37,38  
Seq#:38; Xaa Pos. 36,37,38  
Seq#:39; Xaa Pos. 31,36,37,38  
Seq#:81; Xaa Pos. 31,36,37,38  
Seq#:82; Xaa Pos. 36,37,38  
Seq#:83; Xaa Pos. 31  
Seq#:84; Xaa Pos. 31,36,37  
Seq#:85; Xaa Pos. 31,36,37  
Seq#:86; Xaa Pos. 31,36  
Seq#:89; Xaa Pos. 6  
Seq#:93; Xaa Pos. 10  
Seq#:94; Xaa Pos. 22  
Seq#:95; Xaa Pos. 23  
Seq#:99; Xaa Pos. 31,36,37  
Seq#:115; Xaa Pos. 6  
Seq#:116; Xaa Pos. 6  
Seq#:127; Xaa Pos. 10  
Seq#:128; Xaa Pos. 10  
Seq#:137; Xaa Pos. 14  
Seq#:138; Xaa Pos. 14  
Seq#:151; Xaa Pos. 22  
Seq#:152; Xaa Pos. 22  
Seq#:155; Xaa Pos. 23  
Seq#:156; Xaa Pos. 23  
Seq#:181; Xaa Pos. 31,36,37,38

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 10/27/2004  
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Seq#:182; Xaa Pos. 36,37,38  
Seq#:183; Xaa Pos. 31,36,37  
Seq#:184; Xaa Pos. 31,36

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Input Set : A:\18528032.seq.txt  
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L:12 M:270 C: Current Application Number differs, Replaced Application Number  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:16  
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:32  
L:335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16  
L:343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:32  
L:541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:16  
L:547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:32  
L:805 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0  
L:976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:1006 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0  
L:1037 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0  
L:1070 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:16  
L:1157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:16  
L:1187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:16  
L:1273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:16  
L:1276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:32  
L:1306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:32  
L:1333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:16  
L:1336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:32  
L:1368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:32  
L:1395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:16  
L:1398 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:32  
L:1425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:16  
L:1428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:32  
L:1455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:16  
L:1459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:32  
L:1489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:32  
L:1516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:16  
L:1519 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:32  
L:2561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:16  
L:2564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:32  
L:2595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:32  
L:2625 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:16  
L:2656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:16  
L:2659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:32  
L:2687 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:16  
L:2690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:32  
L:2718 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:16  
L:2721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:32  
L:2799 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:0  
L:2902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:0  
L:2933 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:16  
L:2961 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:16

## VERIFICATION SUMMARY

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Input Set : A:\18528032.seq.txt

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L:3066 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:16  
L:3069 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:32  
L:3470 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115 after pos.:0  
L:3499 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:0  
L:3786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:0  
L:3814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128 after pos.:0  
L:4051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:137 after pos.:0  
L:4078 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:0  
L:4418 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151 after pos.:16  
L:4445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:16  
L:4522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:155 after pos.:16  
L:4549 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:156 after pos.:16  
L:5197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:181 after pos.:16  
L:5200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:181 after pos.:32  
L:5228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:182 after pos.:32  
L:5256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183 after pos.:16  
L:5259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183 after pos.:32  
L:5287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:184 after pos.:16  
L:5290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:184 after pos.:32